

2011-05-25 Wednesday Morning Notes

Wednesday, May 25, 2011
7:46 AM

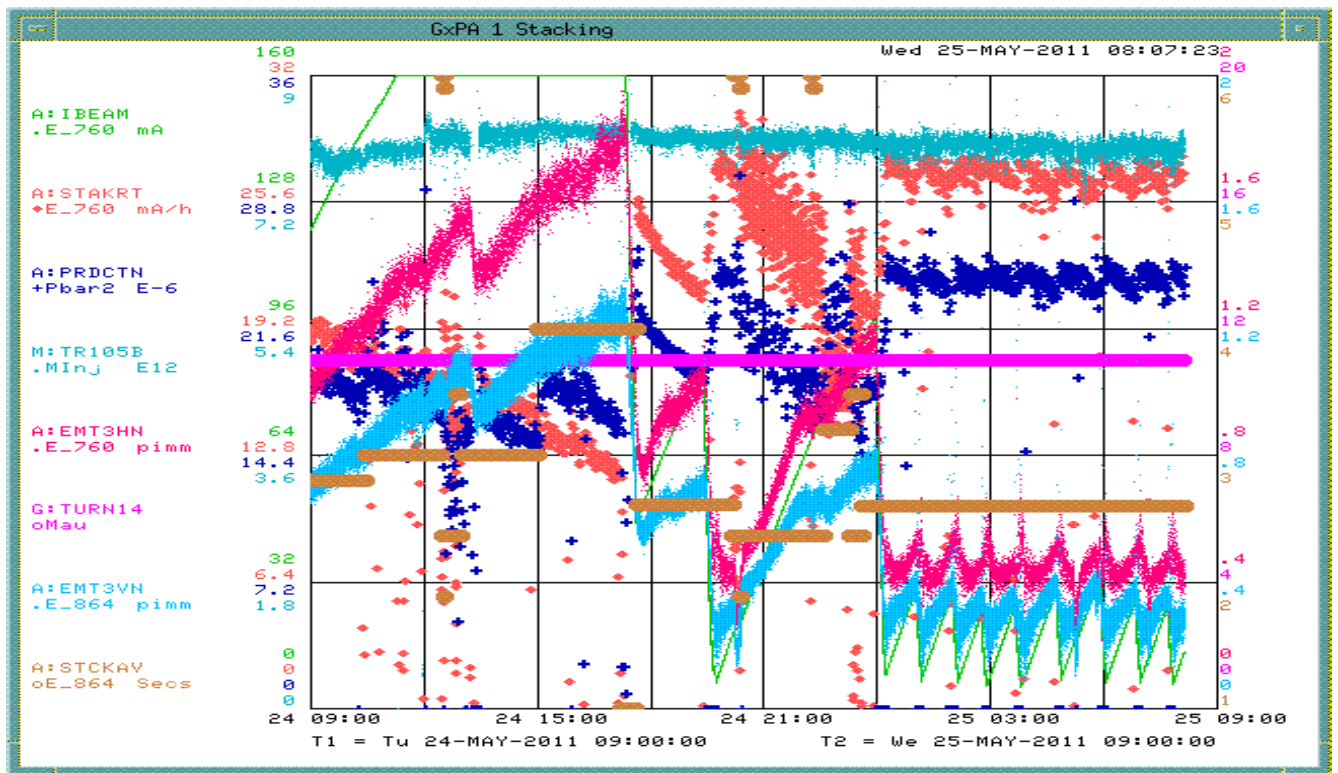
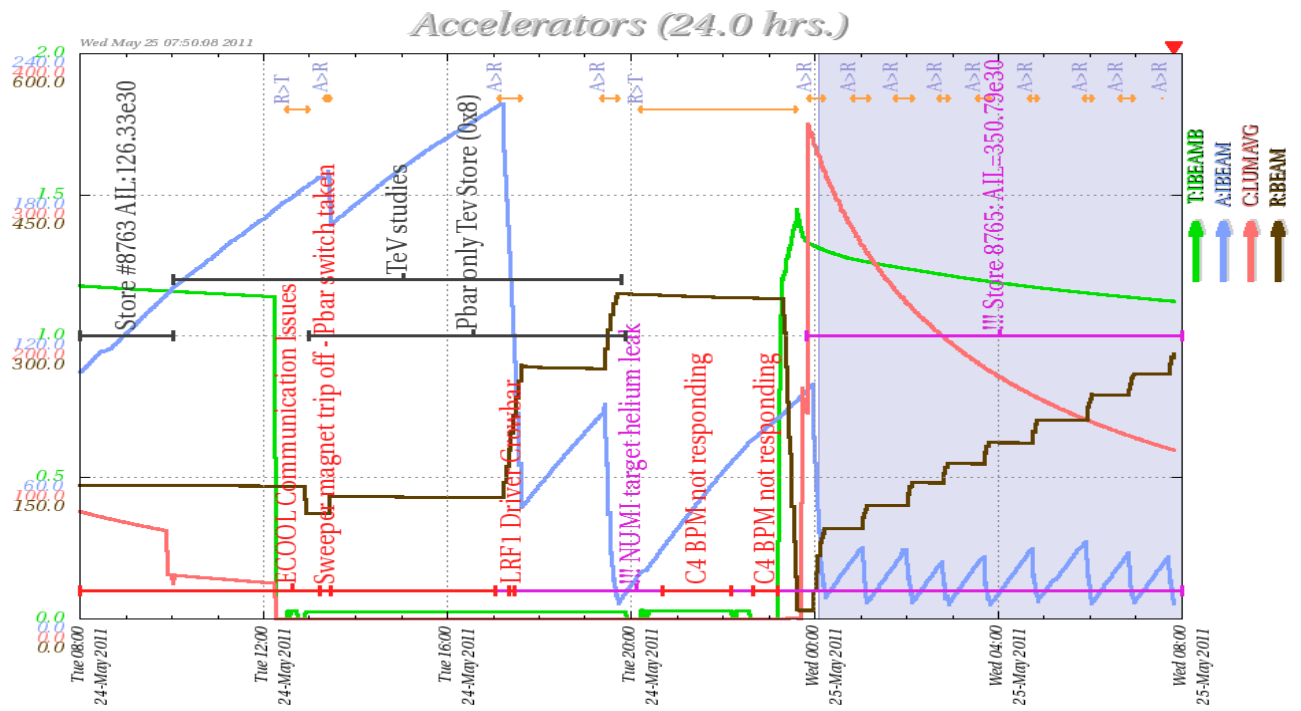
Operational Notes

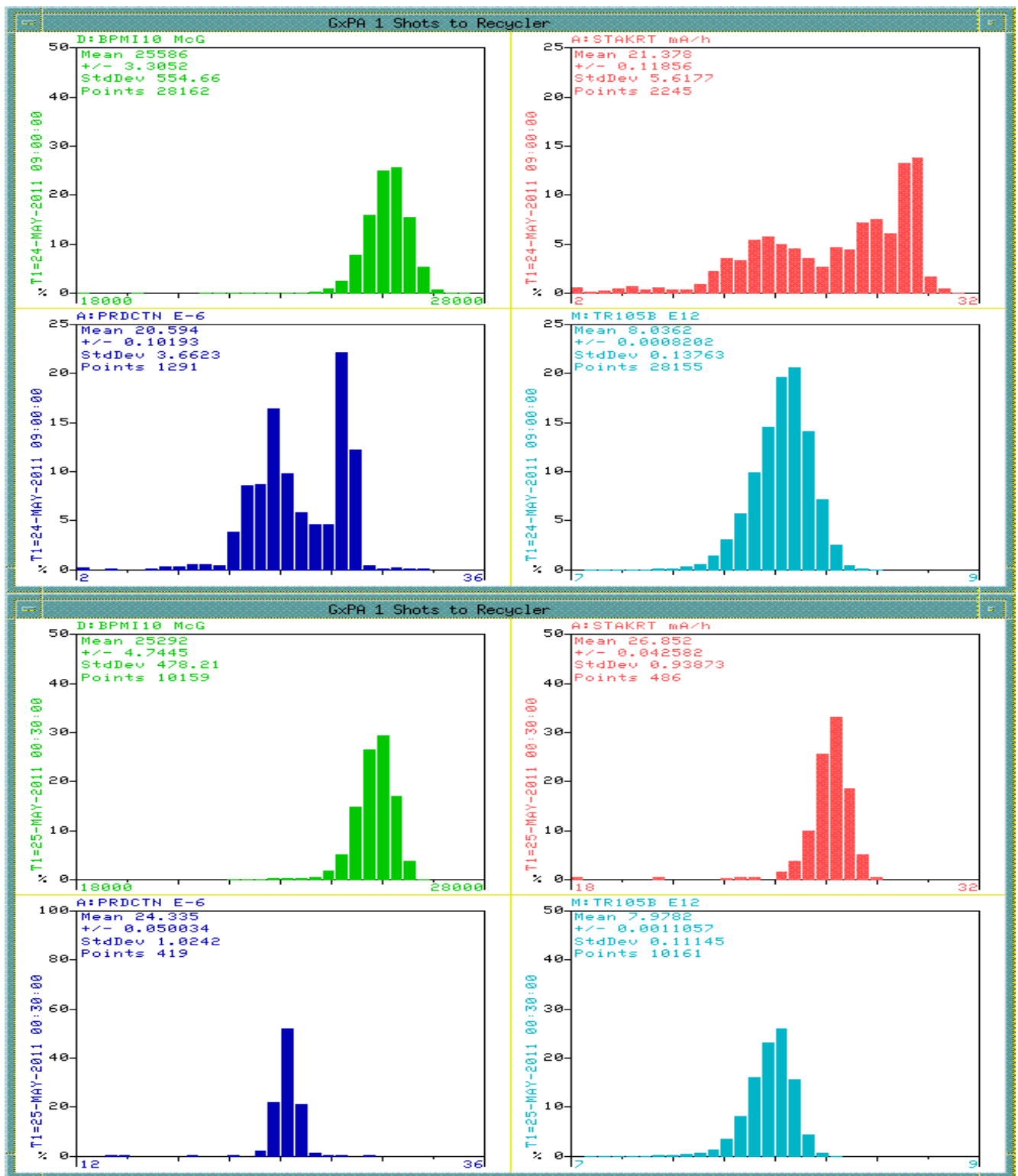
- Sweeping A system trip, switched to B system

Numbers

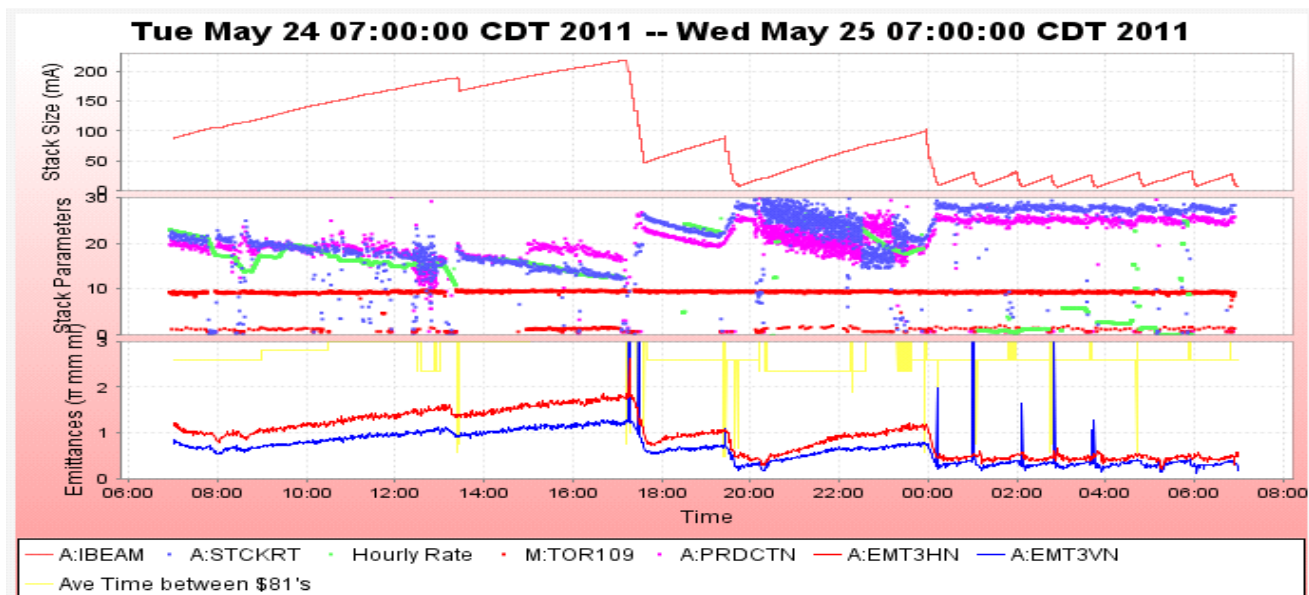
- Stacking
 - Pbars stacked: 483.96 E10
 - Time stacking: 23.84 Hr
 - Average stacking rate: 20.30 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 30752
 - Number of pulses with beam: 28912
 - Fraction of up pulses was: 94.02%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 22.42 Hr
 - Possible average stacking rate: 21.59 E10/Hr
 - Could have stacked: 514.76 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 574.90 E10
 - Number of transfers : 45
 - Number of transfer sets: 12
 - Average Number of transfer per set: 3.75
 - Time taken to shoot including reverse proton tuneup: 00.16 Hr
 - Transfer efficiency: 90.48%
- Other Info
 - Average POT : 8.02 E12
 - Average production: 20.86 pbars/E6 protons

Plots

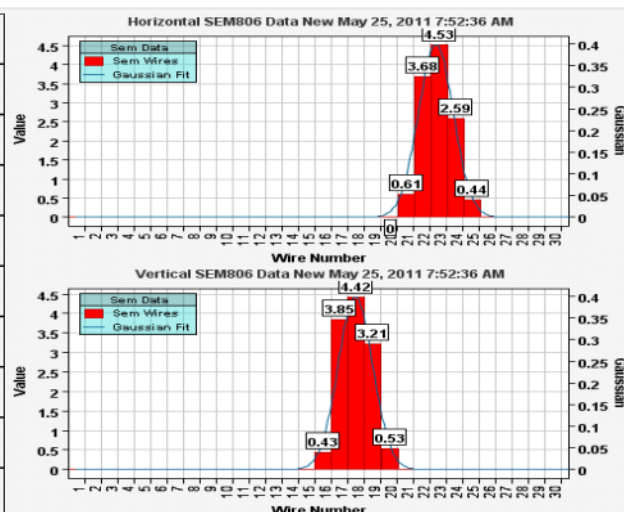


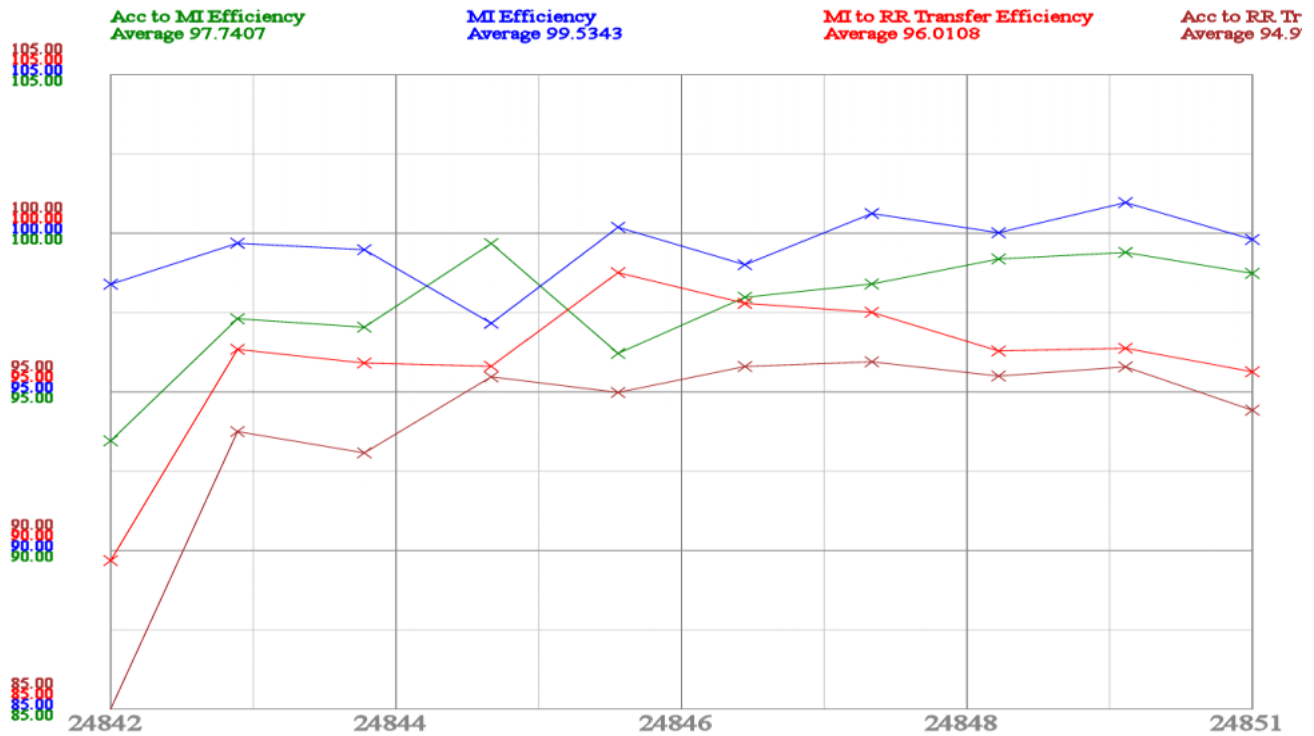


Stacking after 00:30



Horizontal Area New	11.85	Intensity
Horizontal Area Calc	210.14	Intensity
Horizontal Sigma New	2.8	mm
Horizontal Sigma Calc	2.64	mm
Horizontal Mean	23.64	mm
Vertical Area New	12.44	Intensity
Vertical Area Calc	215.13	Intensity
Vertical Sigma New	2.8	mm
Vertical Sigma Calc	2.63	mm
Vertical Mean	8.89	mm





Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number_20_A :IBEA MB sampled on \$91 (A:BE AME0[0])	Column 22 Number_21_A :IBEA MB sampled on \$94 (A:BE AME0[1])	Unstacked (mA)	Column 23 Number_22_R :BEAMS (R:BE AME0[0]) pre transfer, C50	Column 24 Number_23_R :BEAMS (R:BE AME0[1]) post transfer, C50	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance	
Totals =>				556.33			506.01	90.96%	96.40%	95.66%	92.21%	44	11	5.8465	3.9192	1.9049	
Daily Average =>				556.33			506.01					44	11				
24852	Wednesday, May 25, 2011	7.42	26.78	6.25	22.90	259.95	281.69	21.92	95.74%	99.17%	96.94%	96.13%	3	1	4.338	2.929	2.015
24851	Wednesday, May 25, 2011	6.50	28.24	6.71	23.90	237.78	260.33	22.71	95.03%	98.74%	98.43%	97.18%	3	1	4.378	2.956	1.993
24850	Wednesday, May 25, 2011	5.55	32.95	6.54	28.82	210.71	238.21	27.69	96.08%	99.29%	100.47%	99.76%	3	1	4.093	2.718	1.972
24849	Wednesday, May 25, 2011	4.44	30.41	7.28	25.47	186.90	211.13	24.37	95.67%	98.88%	98.79%	97.69%	3	1	4.729	3.046	2.022
24848	Wednesday, May 25, 2011	3.41	26.58	5.34	23.61	164.65	187.22	22.74	96.30%	98.35%	98.05%	96.43%	3	1	4.636	2.986	1.977
24847	Wednesday, May 25, 2011	2.47	24.94	5.72	21.59	144.38	164.91	20.71	95.92%	98.29%	97.52%	95.85%	3	1	4.266	2.836	1.971
24846	Wednesday, May 25, 2011	2.00	23.75	6.48	25.65	120.39	144.61	24.40	95.12%	96.60%	96.90%	93.61%	3	1	4.972	3.294	1.97
24845	Wednesday, May 25, 2011	1.02	30.60	6.96	26.04	95.83	120.65	24.95	95.84%	99.29%	96.58%	95.90%	3	1	4.403	3.26	1.986
24844	Tuesday, May 24, 2011	23.58	11.65	8.60	96.04	9.04	96.34	88.61	92.27%	96.87%	96.62%	93.59%	6	1	7.303	4.697	1.812
24843	Tuesday, May 24, 2011	19.26	14.96	6.43	88.06	265.78	345.60	81.95	93.07%	96.84%	96.61%	93.55%	6	1	6.671	4.459	1.84
24842	Tuesday, May 24, 2011	17.13	218.68	46.95	174.26	129.13	269.52	145.95	83.76%	93.44%	91.96%	85.93%	8	1	14.523	9.93	1.396